ABSTRACT

An object of the present invention is to reduce the number of instruments used in a distillation apparatus to thereby simplify control. A distillation apparatus includes a column body; partitions (22-24) for dividing the interior of the column body into first chambers (14A-16A) and second chambers (14B-16B), which are adjacent to each other; a feed nozzle (41) for feeding into the column body a material liquid (M); a first distillation section (25) including an enriching section (AR1) located at an upper portion thereof and an exhaust section (AR2) located at a lower portion thereof; a second distillation section (26) including an enriching section (AR3) located at an upper portion thereof and an exhaust section (AR4) located at a lower portion thereof; a third distillation section (27) including an enriching section (AR5) located at an upper portion thereof and an exhaust section (AR6) located at a lower portion thereof; first discharge means for discharging a first component; second discharge means for discharging a second component; and third discharge means for discharging a third component. The partitions (22-24) are biased such that the cross-sectional area of the first chambers (14A-16A) differs from that of the second chambers (14B-16B). A pressure loss arising in the first chambers (14A-16A) and sum of pressure losses arising in the second chambers (14B-16B) can be equalized, thereby eliminating influence of descending liquid on ascending vapor.